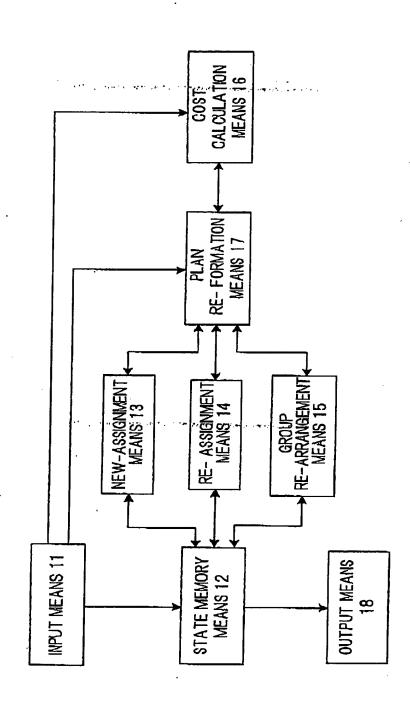
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DESTINATION	LOCATION (X, Y)	KIND OF TASK
1	(34,93)	TASK C
2	(78,46)	TASK A
3	(13,5)	TASK A,B
4	(4,72)	TASK B
5	(52,12)	TASK B
6	(22.10)	TASK A
7	(46,33)	TASK B
8	(69,81)	TASK B
9	(9,85)	TASK C
10	(22,54)	TASK A
11	(29,47)	TASK C

FIG.4

MEMBER	MOBILE CAPABILITY (SPEED OF MOVEMENT)	(TIME F	RKING CAPAB REQUIRED FOR	ILITY R-TASK)
		TASK A	TASK B	TASK C
1	.7	10 to 1 3 min	2	100
2	4 .	6	2	3
3	5	2	250	1
4	15	. 10	12	8
5	3	7	10	5
6	10	5	8	200
7	8	14	5	4

F16.3

			GROUP (GROUP CONSTRAINTS		
400x	GROUP ATTRIBUTE N	MAXIMUM NUMBER OF MEMBERS	ACCOMMO- DABLE MEMBERS	GROUP FORMATION	RELATIONSHIP OF MEMBERS IN GROUP	INTIAL GROUP FORMATION
-	VARIABLE		1, 2, 5, 7	1	1	5
2	INVARIABLE	1	1	2, 6	TWO MEMBERS ARE TO BE WITHIN A PREDETERMINED DISTANCE	1
က	VARIABLE	က	ANY MEMBERS	1	THREE MEMBERS ARE TO BE ALIGNED FOLIDISTANTI V	1,4

F16.5

GROUP	GROUP	VISITING	3 PLAN : MEMBE	VISITING PLAN: MEMBERS - DESTINATIONS (TASK)	IONS (TASK)
·	FORMATION	-	2	က	4
-	7	7-10(A)	7-7(B)		
2	2,6	2-3(A, B)	6-6(A)	6-8(B)	2-[1(C)
က	1,5	1-9(C)	5-1(0)	5-5(B)	

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	=	2
	10	-
•	6	က
	8	2
	7	-
	9	2
	വ	က
	4	UNAS- SIGNED
	က	2
	2	UNAS- SIGNED
		က
	DESTINATION	GROUP NUMBER

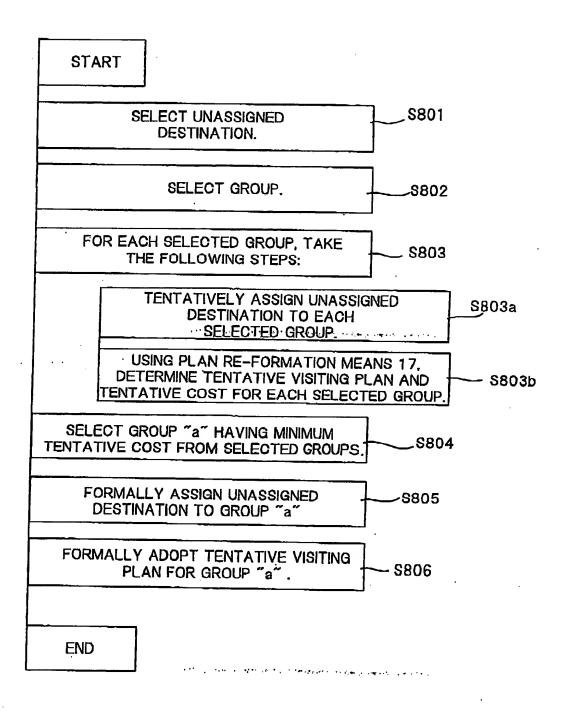
FIG. 7

2
~
UNAS- SIGNED
UNAS- I
2
ന
GROUP NUMBER



Last Link from men 1,10" spring

FIG.8



1 :: [:]: [::]



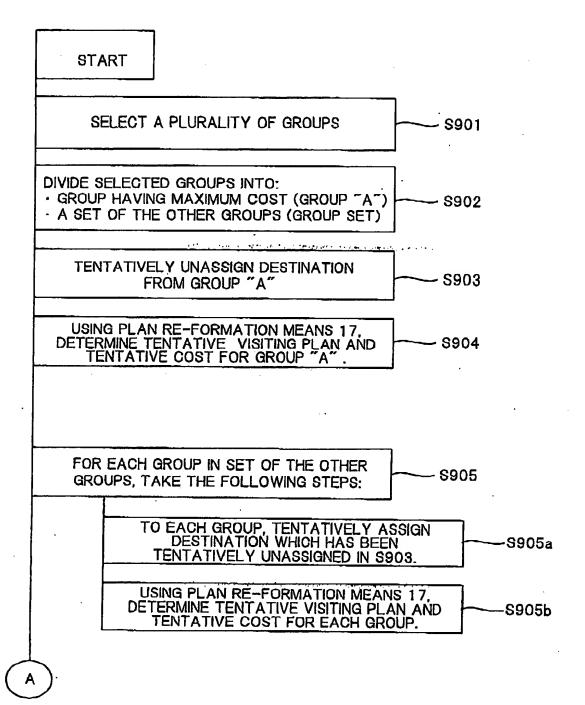


FIG10

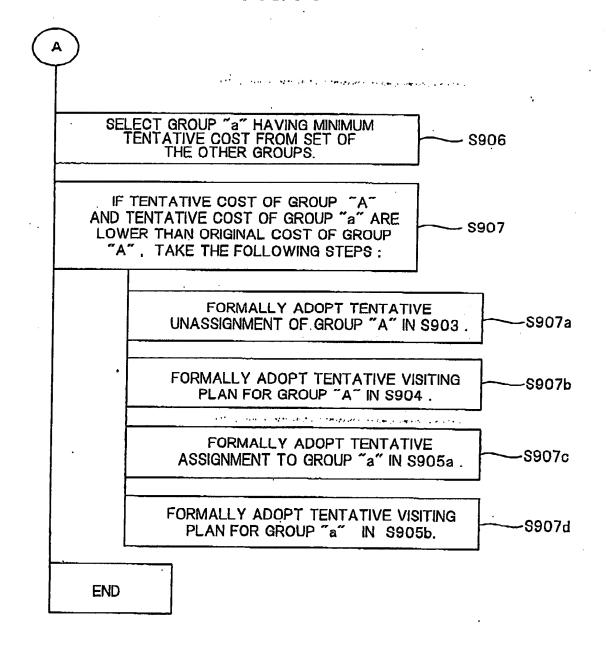
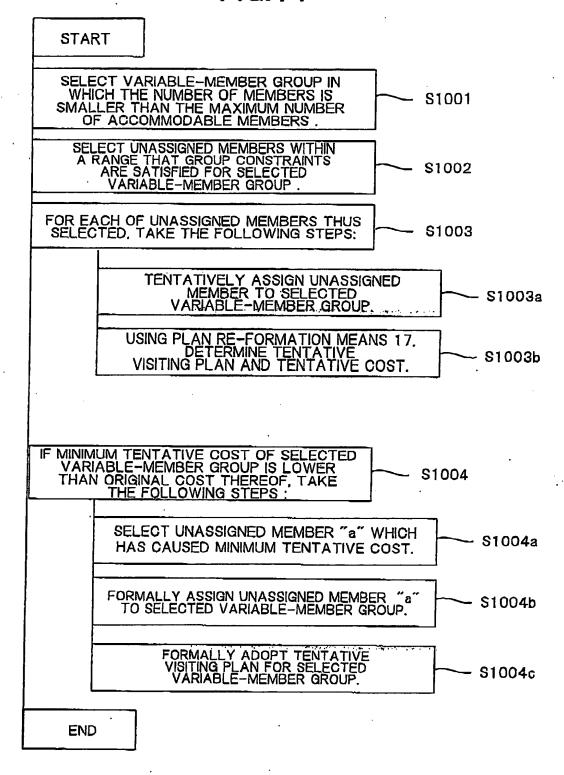




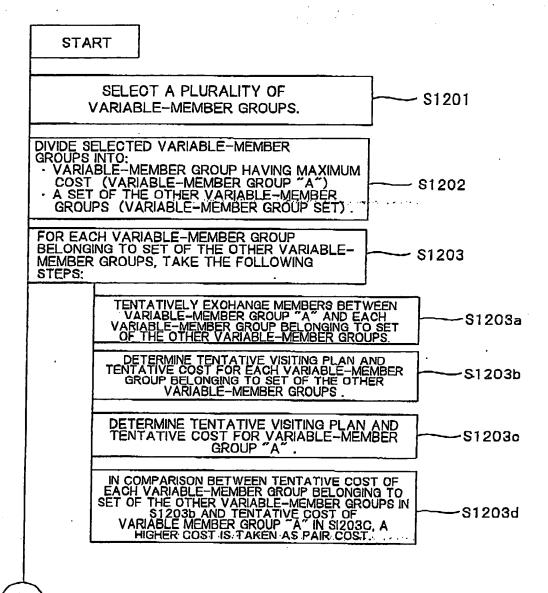
FIG. 1 1



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START SELECT VARIABLE-MEMBER GROUP, AND TENTATIVELY UNASSIGN AT LEAST ONE OF MEMBERS THEREOF. - S1101 SELECT UNASSIGNED MEMBERS WITHIN A RANGE THAT GROUP CONSTRAINTS ARE SATISFIED. - S1102 FOR EACH OF UNASSIGNED MEMBERS THUS - S1103 SELECTED, TAKE THE FOLLOWING STEPS: TENTATIVELY ASSIGN UNASSIGNED MEMBER -S1103a TO SELECTED VARIABLE-MEMBER GROUP. USING PLAN RE-FORMATION MEANS 17, DETERMINE TENTATIVE VISITING PLAN AND -S1103b VISITING COST. IF MINIMUM TENTATIVE COST OF SELECTED VARIABLE-MEMBER GROUP IS LOWER THAN ORIGINAL COST THEREOF, TAKE THE FOLLOWING STEPS: - S1104 FORMALLY UNASSIGN MEMBERS WHICH HAVE ·S1104a BEEN TENTATIVELY UNASSIGNED IN \$1101. SELECT UNASSIGNED MEMBER "a" WHICH HAS S1104b CAUSED MINIMUM TENTATIVE COST. FORMALLY ASSIGN UNASSIGNED MEMBER "a" -S1104c TO SELECTED VARIABLE-MEMBER GROUP. FORMALLY ADOPT TENTATIVE VISITING PLAN S1104d FOR SELECTED VARIABLE-MEMBER GROUP. **END**



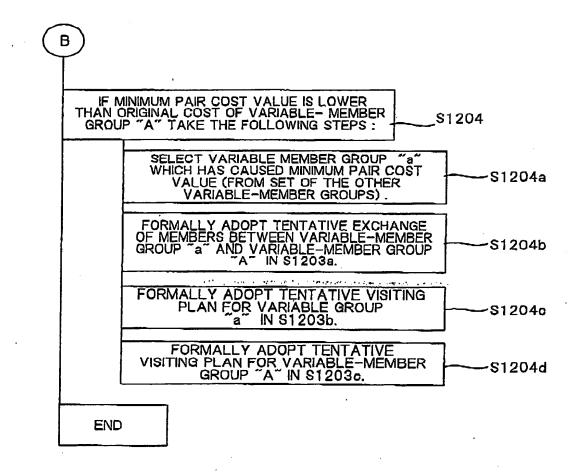
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(A) a) , , i

FIG. 14



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To A sales